



> d l11 1 fro

US PAT NO: 5,819,156 [IMAGE AVAILABLE] L11: 1 of 3  
DATE ISSUED: Oct. 6, 1998  
TITLE: PC/TV usage tracking and reporting device  
INVENTOR: Brian V. Belmont, Dallas, TX  
ASSIGNEE: Compaq Computer Corp., Houston, TX (U.S. corp.)  
APPL-NO: 08/783,608  
DATE FILED: Jan. 14, 1997  
INT-CL: [6] H04N 7/16  
US-CL-ISSUED: 455/2; 348/1, 552; 345/327  
US-CL-CURRENT: 455/2; 345/327; 348/1, 552  
SEARCH-FLD: 455/2, 4.2, 5.1, 6.1, 6.2, 6.3; 348/1, 2, 3, 4, 5, 6,  
7-13, 552; H04N 7/16; 7173; <395 200/54;200.48; <345  
327

REF-CITED:

U.S. PATENT DOCUMENTS

5,374,951	12/1994	Welsh	348/4
5,497,479	3/1996	Hornbuckle	395/491
5,526,427	6/1996	Thomas et al.	380/20
5,532,732	7/1996	Yuen et al.	348/1
5,590,056	12/1996	Barritz	364/550
5,675,510	10/1997	Coffey et al.	364/514A

OTHER PUBLICATIONS

Antonoff, Michael, The Big-Tube PCTV, May 28, 1996, three pages from Internet site.  
Gateway 2000 Sells Destination.TM. Big Screen PC Through Retail Chains, four pages from Internet site.  
Gateway 2000 launches Destination.TM. big screen PC featuring 31-inch monitor, five pages from Internet site.  
Destination Features, five pages from Internet site.  
ART-UNIT: 271  
PRIM-EXMR: Chris Grant  
LEGAL-REP: Jenkins & Gilchrist

ABSTRACT:

A TV/PC convergence device, operable in a television mode, a computer mode and a combination television/computer mode, includes a display, a computer and a tracking device. The display receives and displays images in all three modes. The computer executes programs and is operable in the computer mode and the combination television/computer mode. The tracking device, which is coupled to the display and computer, tracks, records, and reports select uses of the display and the computer during each of the television mode, the computer mode and the combination television/computer mode.

5 Claims, 2 Drawing Figures

user's past history of network usage. An archive is maintained of remote sites accessed and instances in which the same remote sites are accessed in sequence. Statistics regarding information such as the number of times a site has been accessed, and the times a given set of sites have been accessed in sequence, are maintained. This information may be displayed upon command. Based on this information, information items are identified which the user is predicted to be likely to want to access. This information is pre-downloaded, without express user command, so that if the user does enter a command, the response time is advantageously fast.

22 Claims, 11 Drawing Figures

US PAT NO: 5,727,129 [IMAGE AVAILABLE]

L6: 25 of 29

DETDESC:

DETD(13)

In step 26, the number of occurrences of the page, i.e., the number of times in the past that this **Web page** has been downloaded, is computed. Preferably, the **date** and time of the prior downloads, or some suitable indication of how recently each download took place, is also obtained, and used later.

> d 16 25 fro hit

US PAT NO: 5,727,129 [IMAGE AVAILABLE] L6: 25 of 29  
DATE ISSUED: Mar. 10, 1998  
TITLE: Network system for profiling and actively facilitating  
user activities  
INVENTOR: Robert Carl Barrett, San Jose, CA  
Daniel Clark Kellem, San Jose, CA  
Paul Philip Maglio, Santa Cruz, CA  
ASSIGNEE: International Business Machines Corporation, Armonk, NY  
(U.S. corp.)  
APPL-NO: 08/659,100  
DATE FILED: Jun. 4, 1996  
INT-CL: [6] G06F 3/00  
US-CL-ISSUED: 395/12, 357, 353, 200.09  
US-CL-CURRENT: 706/10; 345/353, 357; 395/200.47, 200.54, 200.58; 706/21  
SEARCH-FLD: 395/12, 1, 10, 326-358, 200.01, 200.02, 200.11, 200.08,  
200.09  
REF-CITED:

U.S. PATENT DOCUMENTS

4,931,950	6/1990	Isle et al.	395/12 X
5,103,498	4/1992	Lanier et al.	395/12 X
5,204,947	4/1993	Bernstein et al.	395/157
5,208,745	5/1993	Quentin et al.	395/12 X
5,239,617	8/1993	Gardner et al.	395/12
5,297,249	3/1994	Bernstein et al.	395/156
5,333,237	7/1994	Stefanopoulos et al.	395/12
5,355,472	10/1994	Lewis	395/600
5,390,281	2/1995	Luciw et al.	395/12
5,506,937	4/1996	Ford et al.	395/12
5,560,011	9/1996	Uyama	395/12 X

OTHER PUBLICATIONS

O'Leary, "AI and Navigation on the Internet and Intranet", IEEE Expert, pp. 8-10, Apr. 1996.  
Chang et al., "Intelligent Database Retrieval By Visual Reasoning", IEEE, pp. 459-464, 1990.  
Passani et al., "Learning from Hotlists and Coldlists: Towards a WWW information Filtering and Seeking Agent", IEEE, pp. 492-495, 1995.  
Story et al., "The RightPages Image-Based Electronic Library for Altering and Browsing", IEEE, pp. 17-26, 1992.  
M. Balabanovic & Y. Shoham, Learning Information Retrieval Agents: Experiments with Automated Web Browsing, Dept. of Computer Science, Stanford Univ., California pp. 13-17 (marko@cs.stanford.edu).  
R. Armstrong, D. Freitag, T. Joachims, & T. Mitchell, WebWatcher: A Learning Apprentice for the World Wide Web, School of Computer Science, Carnegie Mellon Univ. 1/20/95, pp. 6-12. AAAI Spring Symposium, Mar. 27-29, 1995. Stanford Univ. Info Gathering for Heterogeneous, Distributed Environment.

ART-UNIT: 245  
PRIM-EXMR: John E. Breene  
LEGAL-REP: James C. Pintner

ABSTRACT:

A system and method are provided for use with an communication and information network, such at the Internet World Wide Web, for assisting a user in accessing information stored at remote network sites based on the

(FILE 'USPAT' ENTERED AT 13:51:22 ON 13 JAN 1999)

L1 216 S 707/501,513/CCLS  
L2 49 S L1 AND (SEARCH? OR RETRIEV?)/TI,AB  
L3 501 S (URL OR WEB) (2A) (LIST# OR TABLE#)  
L4 3 S L2 AND L3  
L5 2 S L3 (20A) (SORT### OR ORDERED OR ORDERING)  
L6 7 S (URL OR WEB(W)PAGE# OR WEB(W)ADDRESS##) (20A) (SORT### O  
R O  
L7 19 S (URL OR WEB(W)PAGE# OR WEB(W)ADDRESS##) (P) (SORT### OR  
ORD  
L8 48 S (HYPERLINK? OR HYPERTEXT? OR URL OR WEB(W)PAGE# OR WEB(W  
)AD  
L9 475 S 707/501,513/CCLS OR 395/200.47,200.48/CCLS  
L10 2 S L8 AND L9  
L11 291 S (ANCHOR#) (P) (SORT### OR ORDERED OR ORDERING)  
L12 3 S L9 AND L11

=> d his

(FILE 'USPAT' ENTERED AT 13:51:22 ON 13 JAN 1999)  
L1 216 S 707/501,513/CCLS  
L2 49 S L1 AND (SEARCH? OR RETRIEV?)/TI,AB  
L3 501 S (URL OR WEB) (2A) (LIST# OR TABLE#)  
L4 3 S L2 AND L3  
L5 2 S L3 (20A) (SORT### OR ORDERED OR ORDERING)  
L6 7 S (URL OR WEB(W)PAGE# OR WEB(W)ADDRESS##) (20A) (SORT### O  
R O

=> d 16 1 cit date

1. 5,850,520, Dec. 15, 1998, Method and system for electronic  
publication distribution including return receipt; L. Joy Griebenow, et  
al., 395/200.36, 200.47 [IMAGE AVAILABLE]

L6: 1 of 7  
TITLE: Method and system for electronic publication distribution  
including return receipt  
US PAT NO: 5,850,520 DATE ISSUED: Dec. 15, 1998  
[IMAGE AVAILABLE]  
APPL-NO: 08/673,988 DATE FILED: Jul. 1, 1996